

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|---|------------------|---------|---------------------|
| S144  | 1      | S142 and S143   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:50 |
| S143  | 1519   | (TEOS or TMOS or silicon organic or silicone) same (thickness) same (" .mu. " or micrometer)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:50 |
| S142  | 479    | S139 and S141   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:49 |
| S141  | 40642  | S137 and S140   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:49 |
| S140  | 617498 | (light extract\$4 or scatter\$4 or rough\$3 near2 surface or uneven near2 surface)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:49 |
| S139  | 602394 | (matsushita electric).as.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:48 |
| S138  | 95     | S137 and S136   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:46 |
| S137  | 339017 | (light-emitting OR light emitting OR electroluminescen\$2 OR electro-luminescen\$2) ADJ (diode OR device OR apparatus OR structure) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/11/14<br>22:46 |

|      |        |   |   |     |    |                     |
|------|--------|---|---|-----|----|---------------------|
| S136 | 3173   | ((fukushima near2 hiroshi) or (masao near2 kubo) or (akira near2 inoue) or (kenichiro near2 tanaka) or (mikio near2 masui) or (shinji near2 matsui)).inv. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>22:45 |
| S125 | 122    | S103 and pitch  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>19:29 |
| S124 | 98     | S114 and S103   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>19:29 |
| S123 | 460    | S122 and<br>(@ad<"20031112" OR<br>@pd<"20050412")   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:31 |
| S122 | 1208   | S114 and S120 and S105  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:31 |
| S121 | 40642  | S114 and S120   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:31 |
| S120 | 617498 | (light extract\$4 or scatter\$4<br>or rough\$3 near2 surface or<br>uneven near2 surface)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:30 |
| S119 | 1092   | S118 and<br>(@ad<"20031112" OR<br>@pd<"20050412")   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:29 |
| S118 | 2478   | S114 and S105   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:29 |

|      |        |  |   |     |    |                     |
|------|--------|--|---|-----|----|---------------------|
| S117 | 136    | S116 and<br>(@ad< "20031112" OR<br>@pd< "20050412")  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:29 |
| S116 | 472    | S104 and S114 and S105   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:28 |
| S115 | 6013   | S104 and S114  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:28 |
| S114 | 339017 | (light-emitting OR light<br>emitting OR<br>electroluminescen\$2 OR<br>electro-luminescen\$2) ADJ<br>(diode OR device OR<br>apparatus OR structure) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:27 |
| S113 | 6      | S111 and S112  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S112 | 24318  | (master or mold or imprint)<br>SAME etch\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S111 | 200    | S110 NOT S107  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S110 | 293    | S109 and<br>(@ad< "20031112" OR<br>@pd< "20050412")  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S109 | 1020   | S108 and (light extracti\$3)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |

|      |         |  |   |     |    |                     |
|------|---------|--|---|-----|----|---------------------|
| S108 | 1635660 | master or mold or imprint  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S107 | 110     | S106 and<br>(@ad<"20031112" OR<br>@pd<"20050412")  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S106 | 394     | S105 and (light extract\$4)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S105 | 34046   | (mold\$4 SAME etch\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S104 | 112853  | (imprint\$3) or (soft<br>lithograph\$3) or (micromold<br>\$3) or (contact print\$3)                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S103 | 1519    | (TEOS or TMOS or silicon<br>organic or silicone) same<br>(thickness) same (" .mu." or<br>micrometer) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:26 |
| S102 | 3603    | 257/E21.503.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:24 |
| S101 | 2409    | 257/E21.502.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:24 |
| S100 | 2151    | 257/E21.499.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:24 |

|     |      |             |   |     |    |                     |
|-----|------|-------------|---|-----|----|---------------------|
| S89 | 941  | 438/47.cds. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:21 |
| S88 | 897  | 438/26.cds. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:21 |
| S97 | 2376 | 438/22.cds. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/11/14<br>17:20 |

**EAST Search History (Interference)**

| Ref # | Hits  | Search Query  | DBs            | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|----------------|------------------|---------|------------------|
| S135  | 26    | S129 and S131 and (pitch.clm.)  | USPAT;<br>UPAD | ADJ              | ON      | 2009/11/14 19:35 |
| S134  | 4     | S129 and S131 and S132  | USPAT;<br>UPAD | ADJ              | ON      | 2009/11/14 19:35 |
| S132  | 577   | ((TEOS or TMOS or silicon organic or silicone) and ("mu." or micrometer)).clm.  | USPAT;<br>UPAD | ADJ              | ON      | 2009/11/14 19:34 |
| S131  | 32619 | ((light-emitting OR light emitting OR electroluminescen \$2 OR electro-luminescen\$2) ADJ (diode OR device OR apparatus OR structure)).clm. | USPAT;<br>UPAD | ADJ              | ON      | 2009/11/14 19:33 |
| S129  | 24420 | (light extract\$4 or scatter\$4 or rough\$3 near2 surface or uneven near2 surface).clm.   | USPAT;<br>UPAD | ADJ              | ON      | 2009/11/14 19:32 |

11/23/2009 2:55:17 PM

C:\Documents and Settings\Myang\My Documents\EAST\Workspaces\ 11. Heterojunction- LED; Laser\ fukushima 10575489 LED rough surface by molding.wsp